Canada

Science and Technology Data - 2011

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Science and Technology Data is published yearly by Industry Canada's Science and Innovation Sector. This publication presents a snapshot of the state of science and technology in Canada in an accessible and convenient format.

This year, the format has been changed to five two-page documents. "National" provides a summary of Canada's R&D. "Government," "Industry" and "Higher Education" each cover a specific component in the national S&T system. "Canada & the World" describes links between Canada's S&T activities and those in other countries around the world.

Due to the varied approaches to national collection and multilateral compilation of data, the figures used for international comparisons will often be for earlier periods than those used for domestic trends. All figures are based on the most recent, reliable data.

The Government of Canada is the second most important funder of R&D in Canada behind the business sector. In recent years, the largest share of the federal government's expenditures on R&D was allocated to the higher education sector.

In addition to R&D, the federal government also supports RSAs. In 2012, RSAs accounted for 36 percent of the Government of Canada's total expenditures on S&T. Among its departments and agencies, the CIHR is the largest spender on R&D, while STC leads for RSA expenditures.

Figures on S&T personnel can be an indicator of intramural activity. In 2011, STC accounted for the largest share of the total federal government's RSA personnel. Meanwhile, the NRC accounted for the largest share of the federal government's R&D personnel.

Federal S&T spending supports a variety of socio-economic objectives. Public health, social structures and non-oriented research are the three objectives attracting the most funding. Overall, about half of the federal government's S&T spending is allocated to activities performed outside of the federal government (i.e., extramural).

Acronyms and Abbreviations

CIHR Canadian Institutes of Health Research

GDP Gross domestic product

GERD Gross domestic expenditure on research and

development

GOVERD Government intramural expenditure on

research and development

IP Intellectual property

National Research Council Canada **NRC**

OECD Organisation for Economic

Co-operation and Development

STC Statistics Canada

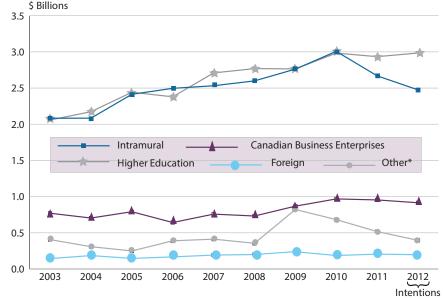
Definitions

R&D "Research and development" is creative work undertaken on a systematic basis to increase the stock of knowledge, including knowledge of humankind, culture and society, and the use of this stock of knowledge to devise new applications.

RSAs "Related scientific activities" complement and extend R&D by contributing to the generation, dissemination and application of scientific and technological knowledge.

S&T "Science and technology" includes both R&D and RSAs.

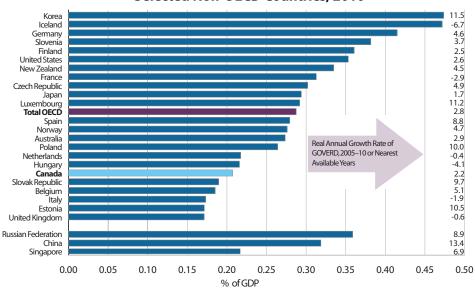
Federal R&D Spending by Performer Type, 2003 to 2012



*Other includes private not-for-profit organizations, provincial and municipal governments, and other

Source: Statistics Canada, Federal Scientific Activities 2012/2013, Catalogue no. 88-204-X, September 2012.

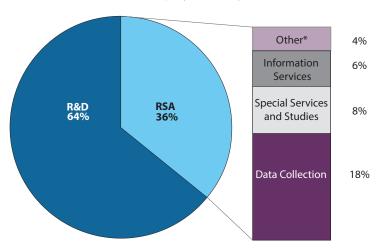
GOVERD as a Percentage of GDP, Top OECD Countries and **Selected Non-OECD Countries, 2010**



Note: Government expenditures include those by federal, provincial and local governments. Source: OECD, Main Science and Technology Indicators: 2012/2, January 2013.

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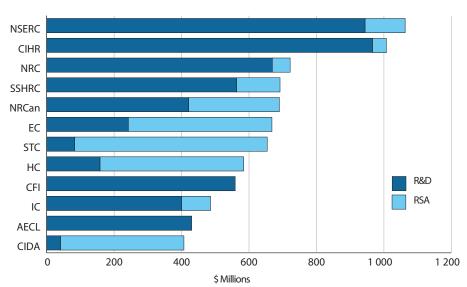
Federal S&T Spending by Activity, 2012 Intentions



Total Intended Spending: \$10.9 Billion

*Other includes education support, administration of extramural programs and capital expenditures. Source: Statistics Canada, Federal Scientific Activities 2012/2013, Catalogue no. 88-204-X, September 2012.

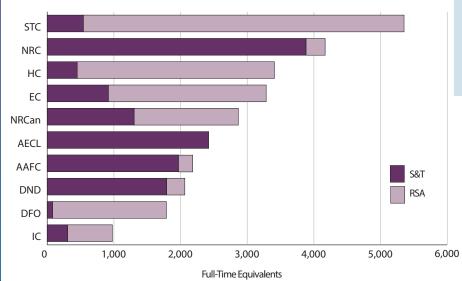
Major Federal S&T Departments and Agencies by Amount of Spending, 2012 Intentions



Source: Statistics Canada, Federal Scientific Activities 2012/2013, Catalogue n° 88-204-X, September 2012.

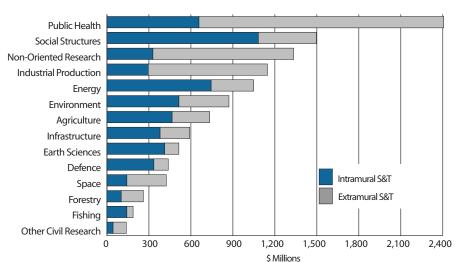






Source: Statistics Canada, Federal Scientific Activities 2012/2013, Catalogue no. 88-204-X, September 2012.

Federal S&T Spending by Socio-Economic Objective, 2010



Department of National Defence **DND** EC **Environment Canada**

HC Health Canada

IC Industry Canada

NRC National Research Council Canada

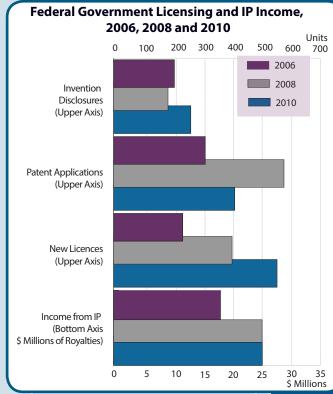
NSERC Natural Sciences and Engineering

SSHRC Social Sciences and Humanities

Research Council of Canada

Statistics Canada STC

Science and Innovation Sector NRCan Natural Resources Canada Research Council of Canada



Source: Statistics Canada, Intellectual Property Management, by Federal Departments and Agencies Indicators, CANSIM Table 358-0026.

Source: Statistics Canada, Federal Scientific Activities 2012/2013, Catalogue no. 88-204-X, September 2012.